Mini-TOWER AMIGAS 1200 ASSEMBLY INSTRUCTIONS

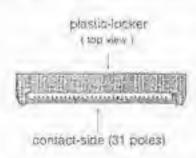
NOTe: Please read this manual completivise !
This tower case transforms the ordinary and difficult to expand Antiga
1200 into a professional machine which houses the complete A-1200
including all expansions and add-on boards, offering a Wide range of versolfic expansion options. Its assembly is very only as the backplane was
designed specially for the measurements of the A-1200 mulnboard and
its external connectors.

The case has three 5.25° and five 3.5° drive bays of which 3 have external access and 2 are only tristile (freely usable for hard drives). The original A-1200 Suppy drive is placed into one of the 3.5° drive bays and fritted with a 3.5° special front bezel that is included in the kis. Real time clock and keyboard interface are included on the bus-expansion board.

DIBASSEMBELY DE THE A-1200

After the 5 screws at the boltom of the case are removed the top-cover of the A-1200 is to be taken off.

Please make sure there are no electrostatical charges in your workplace, as this may damage the curcuits of the machine.



Unfaster the locker of the keyboard connector on the mainteant by pulling up the plastic locker at both skies with a screwdriver until the flex-cable can be pulled out easily. Then you remove the keyboard and the floppy drive (1 screw). Thereby, please note the polarity of the plug of the floppy drive data cable. Please not this down exactly as this is

important for the later assembly steps.

Also take of the sheet metal and the supporting angled metal from the sloes of the floppy drive, if there are any.

The next thing is to remove the upper shielding. Loosen the screw at the middle of the lower boarder of the shoet metal. The 9 tengues at the edges of the metal shield can be easily bent upwards with a flat screwdriver and then straightened out with pilers.

Then the mainboard is litted out of the case. After all the hexagonal holts are repowed from the seckets at the rear edge of the mainboard, the lower stroking is taken off too. For this a 5 min nut (or plays) are newled.

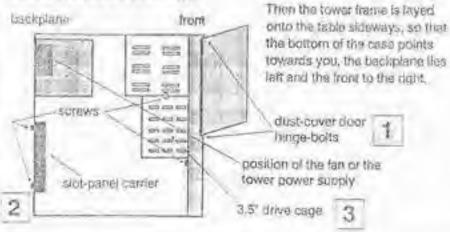
The two shielding mittal shoets are not needed anymore.

ASSEMBLY INTO THE TOWER CASE

First you remove the 6 screws at the rear of the case and fit of the lid of the tower up, and backwards. Take out the bag with the small parts and entity it out onto a plate or some such container.

Then sort the screws by type of threat and size to ease up the assembly. There are matrical M3-screws for most assembly steps and for example lipppy drives as well as some screws with inch-threats.

The opened decreases open at the trent of the case. (see pisture below [11]) can be usually removed temporarily by grabbing it with both hands in the middle and breding it so far that the two hings boits can be pulled out of the bearings without damage.



Then unserew the slot-panel carrier that is held by 4 screws at the backplane of the tower (picture page 2, [2]) and renove the 3,5° drive cage that is held by 2 screws (picture page 2, [3]).

Check the positioning of the prenstailed insulation plastic sheeting inside the case underest in the position of the mainboard. If it got loose in transport, press it against the metal on the sticking gluepoints. Now the mainboard of the A-1200 is placed loosely into the case and the external Sub-D connectors of the mainboard put through the wholes of the backplane. Then the board is screwed loosely and the shart because the right redge of the mainboard with 2 stirrt M3 screws (see drawling page 5, [B]).

Then the hexagonal bolts are screwed back into the Sub-D connectors at the back of the towar. By this the mainboard will gut additional support. Please don't faster the hexagonal bolts foo much with the 5 mm gut (or pilers) as it is easy to overturn them while destroying the throat. They should be just so light that a plug that is fixed onto the connector can be easily removed without the hexagonals coming loose again when unscrewing the plug.

Only if you don't have a busboard, now finally tighten the two short M3screws (picture page 5, [B]).

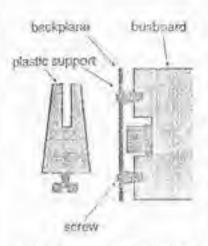
Mounting the A-1206 zorro-slot busbnam

If you don't have a bus-expansion board yet, please go on to the next chapter of these instructions.

Above the connectors "SERIAL" and "COMP.-VIDEO" you'll find 2 wholes where the plastic supports of the busboard are to be mounted (see drawing, page 4).

Turn out the screws from the two included plastic supports and fit them through the wholes from outside, then hold the plastic supports against them from inside so that the opening lies horizontal. Don't tighten the screws yet, so that the supports remain movable and can later receive the edge of the busboard to guide and support it.

Now, if you have one, plug the AT-bus (IDE) hard drive cable onto the connector of the mainboard, as to do this later would be difficult.



Take the expansion port connector off the busboard and plug it onto the expansion port of the mainboard so that the gold-contacts point to the upper end of the tower and the two connector sockets upwards. Their finally tighten the two short. M3-scrows at the edge of the mainboard (position, see picture page 5, [B-]).

The keyboard Interface is included on the bestoard. Open the lockers of the flexcable connectors (drawings, pages 1 & 6, [F1) at the edge of the busboard and on the meinboard (pull it up). The green flex-

cable is plugged in first onto the mainboard with its polarity so that the carbon side faces the backplane and the enforced plastic skie facing away from the backplane. Push the locker back in.

Then lay the bust-pard into the tower at a stanted angle, whereby you first plug in the flex-cable with the right polarity and then lock it. Then you insert the left edge of the board into the opening of the plastic supports (see picture above) whereby the flex-cable is layed undermosth the busboard. Then the right edge of the board is lowered, so that the expansion port connectors are fitted together properly and the board is resting on all the haragonal distance boits.

Then fasten the board with 4 M3-screws on the distance bolts (positions, see picture page 6, [G]) and finally tighten the 2 screws of the plastic supports at the backplane of the tower. Now also mount the slotpanel carrier with its 4 screws back onto the backplane (picture page 2, [2]).

The switch panel mit the MHz display at the front of the tower is connected with the busboard by a 7-pole reset/turbo/keylock/LED plug (see drawing of the busboard, page 6 [H].).

Also connect the plugs of the keyboard socket [1] and the cooling fan [d] with the right polarity. The 5-pole and 7-pole flat plugs have an unused pin-position for designation of their polarity.

Polanty of the 2-pole fan cable; red is to be connected with "+12 V", black with "GND" (as printed on the busboard).

Connection of keyboard interface and plugs In the A-1200 Tower (without bilaboard)

0 tower-backplane, inside view keyboard socket socket for the 5-pole plug from the LED-anoumbly E mainboard plug C plug interface knybhirti-MS-scenum on flexcable shoe distance. appoint B blug or black white +5 V intermediate 0 power cable connector piece +12 V OV plug black. to the fan ried

ASSEMBLY WITHOUT BUS-BOARD

Now mount the slot-panel carrier with its 4 screws back onto the backylana (plature page 2, [2]).

SNO

W

RESET

MEXICU.

URBE

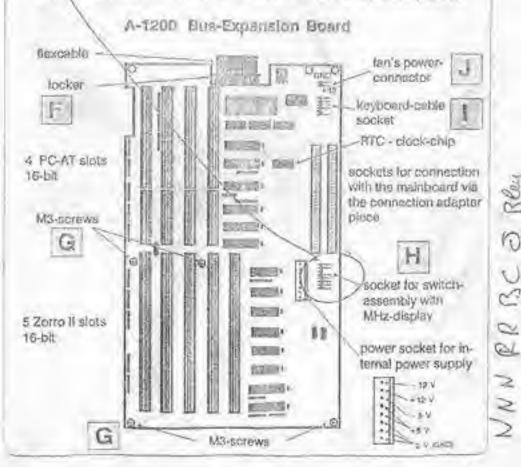
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Open the locker of the flexcable socket (picture, page 1) on keyboard interface and maintened (pull it up). Flug in the flexcable of the keyboard interface on the top side of the mainboard so that the carbon contact side sits pointing to the backplane of the tower (the enforced plastic side points away from it):

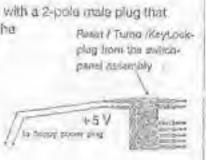
Rush the locker in: Than plug the other and of the flexcable into the intertake, with its polarity so that the carbon contact side sits facing the metal contacts in the socket. Then push the locker in (see also picture, page 5).



Glue the interface box onto the slot panels of the backplane and connect the plug of the keyboard socket with the interface (head polarity). (See picture page 5 [E]).

The keyboard Interface is supplied with +5 V power. For this you plug the short floppy drive power cable piece onto the disk drive power connector of the mainboard and then the 30 cm long 3.5" floppy drive power cable onto the short cable. Connect the 2-pole plugs for the power of the 12 V cooling fan using the included pair of connection pins (see picture, page 5 [D]); equal colours go together.

The flat 7-pole female plug is to be connected with a 2-pole male plug that sits in a 7-pin wide plug casing branching off the other end of the floppy drive power cable. By this the +5 V power of the power cable is connected with the MHz-display. When plugging the connectors together, pleasa make sure that the open pin-positions are lacing each other, so that the polarity is right.



FURTHER ASSEMBLY STEPS

Now you connect the 5-pole plug of the frontpanal LED-assorbly with the connector for the keyboard LED-assembly on the malriboard where the LEDplug of the keyboard was before (see drawing, page 5 (C)). Please don't mix up the plug of the LED-assembly [C] with the one of the keyboard socket [E | or [I] as they look the same.

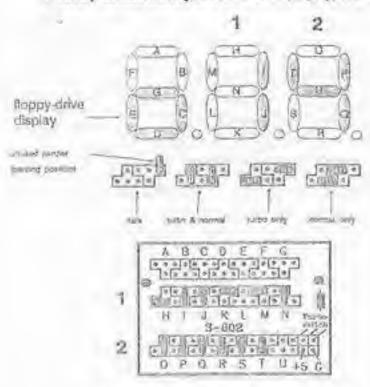
Then please make a test-run to see if a power-on massage appears. The green power-LED and the MHz-display have to come on.

The front-panel switch assembly with the MHz-display comes preadjusted. (14 / 50 MHz) if you have the type with Jumpers. You can adjust the display to your needs before you mount the 3.5" drives and their cage again, The jumpers have to be placed according to a certain systematic logic which is depicted on page 8 so that each single segment of each digit shows the correct operation.

For each segment you have to assign by one of 3 possible jumper positions.

If it's always off, or lit up only at switch position "normal", only at "turbo". or lit always, no malter what switch position. You can draw a plan first showing how the jumpers should be positioned, or you just plug the jumpers when the power is on and try so long until the display is correct at both positions of the turbo-switch.

Factory-default setting of the MHz-display, type 1 = S-802



Tunion the MHx-display, type = 5-603

The electronical adjustment of the display values is done by pressing the RESET builden.

First you sat the turbo-switch to "normal" and press the reset button for a low seconds. The display figures start to run. When the value is approaching the should-be-figure (14), let go of the reset button.

Than press it briefly for a few more times until the display value reaches its proper value in single-step mode.

Then switch to hurbo and repeat the above funing procedure until the display liquies have reached the proper value for turbo (50).

The original A-1000 floopy drive is mounted into the 3.5" drive cage. Mount the drive cage with the floopy drive installed back into the tower directly behind the new front bazel and push the drive towards the front as far as it will go, so as to support the bazel, whereby the pushbutton gour properly through the whote so that it stays moveable and unblocked. There are 2 different drive bazels included because different manufacturers of drives make slightly different shapes of drives. Chose the bazel that better saids your drive and gots a more firm hold in the front panel by being supported by your drive. The bezel with longer floors fits Chinon drives.

In connecting the days, hand the notes of the polarities of the plugs that you needed down. Wrong polarity of the drive power plug gives destroyed drive electronics. Wrong polarity of the data calls is not critical, but the estept-LED of the drive is it up all the time.

(Commiss at Final Assembly Steps", if you have a PC-knyboard version.)

ASSEMBLING THE AMIGA-JULYBOARD INTO THE KEYBOARD CASE

The LEO-cantor board from the top lift of the A-1200 original case to not needed anymore in operation of the lower.

After unpacking the pieces of the keyboard case place the bottom on the rable in front of you. Then by the A-1200 original beyond against the bottom of the case, centered Edoways, keys feching up



Now the position of the green flexcable indicates the should be position of the keyboard interface box that you have to glue onto the bufforn of the keyboard case at the rear end.

Pull of the cover of the double sided sticky tape and put the box of the interface electronics into its proper position.

'New you toosen the light grey locker of the broad socket of the laterface and plug the sed of the flexcable into it so that the ration contact side is facing the metal contacts of the socket. Push it in as far as it will go and then took the locker.

Now lay tire keyboard upside down bahind the battom of the case and plug the round spiral cable into the injertion off its fall olds. Then guide the mund of the to the outside through the notice in the bottom of the case. Then some this pocket of the back grounding who onto the bottom wheat matabol the keyboard, at the ness some portion that it can reach.

Lay the keyboard late or proper mounting position in the hotion of the case whereby the flexcable disappears unter the shart metal of the keyboard, non-close the upper in of the keyboard, non-close down and discretize case with 6 screws at the holiom.

This is easyest to do if you key the keylor-mit note your legs with both ends.

The heyboard is now roudy for connection with the tower.

FINAL ASSEMBLY STEPS

Make stire that everything is DK and connect the keyboard to the tower. Before you close the list of the tower case, please make a test run of your A-1200, list without plug in cards.

Then, only after this, give in your slot carris, wheneby it is good if you support the motal at the bottom side of me mulniment with your hand, and make another lest run.

When pulling not the slot cards, it is bearin if you push down to beatening with your other tening. Power up your computer as usual and check the functions. At the end you can close the lid and put the 6 screws back in. Then finally, mount the plinth with 4 screws.

ATTENTION:

If you are using the original Commodore transformer power supply you can operate one slot card on the busboard at the most. If you want to use more cards you should mount the strong internal power-supply into your tower.

If the tower-internal power supply is used, don't connect the external transformer power supply also - there could be system malfunctions. The turbo card runs only if the turbo switch is depressed.

The power-, HDD- and diskunve- LED display is at the frontpansl of the tower, not at the keyboard anymore.

The Roppy drive LED-display is integrated into the MHz-display, realized by 4 segments on its left side.

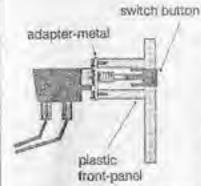
MOUNTING THE INTERNAL TOWER POWER SUPPLY

Disconnect the power supply of the fan at the backplane of the tower and take out the 4 screws of the sheet metal that is holding the fan. Take out the sheet metal together with the fan. The fan is not needed anymore.

Now bring the new power supply into the right crientation for mounting (fan up, mains sockets down). Lay the cables up and then insert the power supply into the tower from the top, whereby you lum it a bit so that it fits through the frame of the tower. Then featen it with the 4 screws that you had removed from the sheet metal of the fan.

The next thing is to mount the power switch at the front panel of the tower. For this you can take out the 3.5" drive cage. OR take of the front-panel of the tower, that is held by one screw right on top of the frame.

First you remove the piece of adapter-metal that is held by two screws at the inner side of the frontpanal. This adapter-metal you now screw onto the front of the mains switch with 2 M3-screws.



Then the switch is screwed onto the plastic front panel with 2 screws and the adaptermetal as shown in the picture to the left.

The yellow-green grounding wire with the noose must now be connected to the next free threat-whole of that part of the mutal frame where the mainboard is mounted. Use an Inch-threat screw for this.

PC-Keyboard-Interface KEY-ASSIGNMENT TABLE

PC-Keyboard	AMIGA - Keyboard
End Del Curl fell Curl right F12 Ins Curl (L) + Curl (R) + Ins or F12	Help Del Amiga left Amiga right Curl Ctrl RESET = warm-boot
Alt (right) + Ctrl (L or R)	open menu (right mouse button)
Alt (left) = Oth (L or R)	chose manu (left mouse button)
Nem (Num Lock) † Home Page up	I { I } \ (devide - stash)
Remaining key-assignments:	1 to 1.

knowled in the delivery is a software-driver for the sturiup-sectionics that can be used to consign or also two key-assignments at any time. Yours and hints, as well as messages on wanted engagements of key assignment, used by and handling are welcome?